

### Abstract of the Disclosure

Disclosed is a European digital audio broadcast receiver having a simply implementable fast Fourier transform processor and an operation method therefor. A digital audio broadcast receiver having diverse fast Fourier transform (FFT) modes based on sizes of transmitted data has an address generator for generating a predetermined number of write addresses and read addresses, a fast Fourier transform (FFT) processor for repeating data of FFT modes to generate a predetermined number of data and implementing a fast Fourier transform (FFT) by using the predetermined number of data, and a controller for controlling the address generator to the write addresses and the read addresses according to operations of the FFT processor.